

ABSTRACT OF THE DISCLOSURE

The invention is an elevating system that is used to move a payload from different levels of a building, allowing it to stop at different predetermined locations with the push of a button at the predetermined access locations. This system varies from existing systems in that it is driven by a low profile motor that has built in braking and limit switches. The motor assembly is mounted to the bottom of the tower and uses cables and pulleys to move the platform up and down. The low profile drive motor eliminates the need for floor mounting of the drive motor, which normally limits the bottom foot of the travel and requires a hole or vault in the floor to make it a low profile system. That space is not needed for this design. Limit switches are normally needed at each stop to signal when the container has reached its desired location, whereas, this invention has rotary limit switches, at the rotary drive motor, that count revolutions to control the stop locations. The pulley system has two independent cables for safety. Each of the cables has the ability to hold the load. A set of turnbuckles are used for coarse adjustment of the cables and a pivoting mount for the pulleys at the top allows for variations in cable length during operation while still having balanced tension in each cable. The container is a single piece of roll mold plastic with a lip to prevent spills from dripping down the walls of the hoist way.